



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

March 14, 2008

Ordinance 16033

Proposed No. 2007-0580.1

Sponsors Phillips

1 AN ORDINANCE relating to the Regional Wastewater
2 Services Plan conveyance policies, amending Ordinance
3 13680, Section 6, as amended, and K.C.C. 28.86.060.
4

5 **STATEMENT OF FACTS:**

6 1. The Regional Wastewater Services Plan ("RWSP"), a supplement to
7 the King County Comprehensive Water Pollution Abatement Plan, was
8 adopted by the King County council in November 1999 by Ordinance
9 13680 and subsequently codified in K.C.C. chapter 28.86.

10 2. The RWSP identifies projects and programs needed to provide
11 wastewater capacity for homes and businesses in the wastewater service
12 area through 2030. The RWSP also provides policy direction for the
13 operation and continued development of the wastewater system and its
14 capital improvement program.

15 3. In 2003, the wastewater treatment division ("WTD") of the King
16 County department of natural resources and parks completed a system-
17 wide regional conveyance-planning program in order to further evaluate

18 and identify conveyance needs through 2030. Since then, significant new
19 flow monitoring and modeling information has been gathered that allows
20 for more accurate projection of wastewater flows. This information, along
21 with information gathered from individual component agencies about
22 population and employment growth rates and land use trends, was used in
23 the effort to update the conveyance system improvement ("CSI") program.

24 4. County staff shared this information with the metropolitan water
25 pollution abatement advisory committee ("MWPAAC"), whose function is
26 to advise the King County executive and council in matters relating to the
27 performance of the water pollution abatement function, and worked with
28 the engineering and planning subcommittee of MWPAAC to finalize the
29 CSI program update and program recommendations and guidelines.

30 5. In 2004, MPWAAC made recommendations on prioritization
31 guidelines for phasing conveyance improvements. These guidelines,
32 which were reviewed by the metropolitan King County council's regional
33 water quality committee ("RWQC") in 2004, were applied during the
34 process to update the CSI program.

35 6. The amendments to the RWSP conveyance policies provided in this
36 ordinance were developed in coordination with MWPAAC. These
37 amendments offer additional guidance for the planning and
38 implementation of RWSP conveyance improvements by adding details to
39 existing policy that will help to ensure that the CSI program remains
40 current and is based on the most accurate information available.

41 7. The RWQC was briefed on the CSI program by executive and council
42 staff on September 8, 2004, and September 22, 2004. Information on
43 future conveyance needs was provided to the RWQC during a briefing on
44 the infiltration and inflow control program on March 9, 2005. In addition,
45 information on the CSI program update was provided to the RWQC on
46 September 5, 2007.

47 8. The RWQC 2007 work program, approved by the King County council
48 via Motion 12466 in February 2007, includes review and action of
49 proposed RWSP conveyance policy amendments based on the work
50 associated with the regional CSI program update. This ordinance meets
51 the intent of the RWQC 2007 work plan item associated with the CSI
52 program.

53 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

54 SECTION 1. Ordinance 13680, Section 6, as amended, and K.C.C. 28.86.060 are
55 each hereby amended to read as follows:

56 A. Explanatory material. The conveyance policies are intended to guide how
57 major improvements to the wastewater conveyance system, including building and
58 upgrading the pipes and pump stations needed to convey wastewater to the Brightwater
59 treatment plant and building the outfall pipe from the Brightwater treatment plant, will be
60 accomplished. The policies also include guidance for other major and minor conveyance
61 improvements to accommodate increased flows in other parts of the service area and to
62 prevent improper discharges from the sanitary system.

63 ((The policies also direct the executive to develop and recommend policies to implement
64 equitable regional ownership of the conveyance system.))

65 B. Policies.

66 CP-1: To protect public health and water quality, King County shall plan, design
67 and construct county wastewater facilities to avoid sanitary sewer overflows.

68 1. The twenty-year peak flow storm shall be used as the design standard for the
69 county's separated wastewater system.

70 2. Parameters developed by the wastewater treatment division in consultation
71 with the metropolitan water pollution abatement advisory committee shall be used to
72 guide project scheduling and prioritization for separated wastewater system projects.

73 3. The south treatment plant effluent transfer system shall be designed with a
74 five-year design storm standard. When effluent volumes exceed the five-year design
75 standard and exceed the capacity of the south treatment plant effluent transfer system,
76 secondary treated effluent from the south treatment plant will be discharged to the
77 Green/Duwamish river until the flow subsides such that the flow can be discharged
78 through the south treatment plant effluent transfer system.

79 CP-2: King County shall construct the necessary wastewater conveyance
80 facilities, including, but not limited to pipelines, pumps and regulators, to convey
81 wastewater from component agencies to the treatment plants for treatment and to convey
82 treated effluent to water bodies for discharge. Conveyance facilities shall be constructed
83 during the planning period of this plan to ensure that all treatment plants can ultimately
84 operate at their rated capacities. No parallel eastside interceptor shall be constructed. No
85 parallel Kenmore Interceptor shall be constructed.

86 CP-3: King County shall periodically evaluate population and employment
87 growth assumptions and development pattern assumptions used to size conveyance
88 facilities to allow for flexibility to convey future flows that may differ from previous
89 estimates. The following activities shall take place to confirm assumptions and
90 conveyance improvement needs:

91 1. Field verification of wastewater flows and conveyance component conditions
92 prior to implementation of regional conveyance capital projects that are intended to
93 expand capacity of the system; and

94 2. Decennial flow monitoring to correspond with the Federal Census conducted
95 every ten years.

96 CP-4: The executive shall update the conveyance system improvement program
97 every five years beginning in 2013 to ensure the program remains current. The program
98 updates shall provide information on growth patterns, rate of growth and flow projections
99 and report on how this information affects previously identified conveyance needs. The
100 program updates shall also provide information on changed or new conveyance needs
101 identified since the previous update.

102 CP-5: King County shall apply uniform criteria throughout its service area for the
103 financing, development, ownership, operation, maintenance, repair and replacement of all
104 conveyance facilities. The criteria shall include:

105 1. County ownership and operation of permanent conveyance facilities that
106 serve natural drainage areas of greater than one thousand acres;

107 2. Conformance to the county's comprehensive water pollution abatement plan
108 and the Regional Wastewater Service Plan as precondition of county ownership; and

109 3. A financial feasibility threshold governing limitations of the county's
110 financial contribution to: development of a new interceptor or trunk sewer; or acquisition
111 of an interceptor or trunk sewer constructed by a local agency. The threshold, as
112 specified in K.C.C. 28.84.080, shall consider the capital costs that can be supported by
113 the existing customers in the natural drainage area that would be served by the new
114 facility.

115 (~~CP-5:~~) CP-6: King County shall closely integrate water reuse planning and I/I
116 study results with planning for wastewater conveyance and treatment facilities. King
117 County shall consider water conservation and demand management assumptions
118 developed by local utilities for wastewater facility planning.

119 CP-7: King County shall evaluate other demand management alternatives to meet
120 identified conveyance needs, such as infiltration and inflow (I/I) reduction, water
121 conservation, and reclaimed water facilities. Factors such as operational, environmental

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122 and financial impacts, costs and benefits, and the net present value of alternatives shall be
123 included in the evaluation of all feasible alternatives identified by the county.

124

Ordinance 16033 was introduced on 11/5/2007 and passed by the Metropolitan King County Council on 3/10/2008, by the following vote:

Yes: 9 - Ms. Patterson, Mr. Dunn, Mr. Constantine, Ms. Lambert, Mr. von Reichbauer, Mr. Ferguson, Mr. Gossett, Mr. Phillips and Ms. Hague

No: 0

Excused: 0

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

Julia Patterson, Chair

ATTEST:

Anne Noris, Clerk of the Council

APPROVED this ____ day of _____, ____.

Ron Sims, County Executive

Attachments A. Conveyance System Improvement Program